

ON THE COVER

Artwork (cut Coloroid paper on paper) by New York artist Rachel Urkowitz (rachelurk@earthlink.net). Activated platelets secrete the memory chemical glutamate (red), which enhances clotting by increasing platelet activation and recruiting more platelets.

Related article by Morrell et al.
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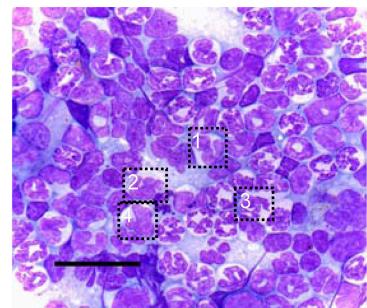
ARTICLES

- 543 Enhancing therapeutic vaccination by blocking PD-1-mediated inhibitory signals during chronic infection
Sang-Jun Ha, Scott N. Mueller, E. John Wherry, Daniel L. Barber, Rachael D. Aubert, Arlene H. Sharpe, Gordon J. Freeman, and Rafi Ahmed

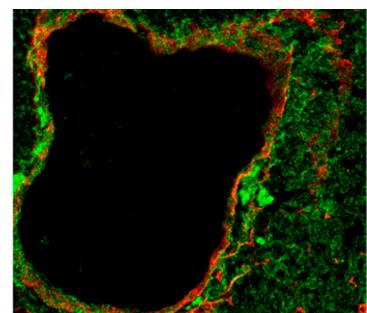
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- 565 The AKT–mTOR axis regulates de novo differentiation of CD4⁺Foxp3⁺ cells
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- 641 Loss of the BH3-only protein Bmf impairs B cell homeostasis and accelerates γ irradiation–induced thymic lymphoma development
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- 657 Contrasting roles of SPARC-related granuloma in bacterial containment and in the induction of anti-*Salmonella typhimurium* immunity
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- 669 A gammaherpesvirus-secreted activator of V β 4⁺ CD8⁺ T cells regulates chronic infection and immunopathology
Andrew G. Evans, Janice M. Moser, Laurie T. Krug, Veranika Pozharskaya, Ana L. Mora, and Samuel H. Speck

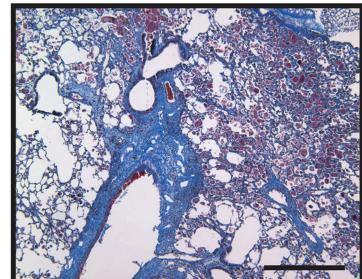


Hematopoietic stem cells that are forced to express the microRNA miR-155 give rise to myeloid cells (numbered) rather than lymphoid cells.
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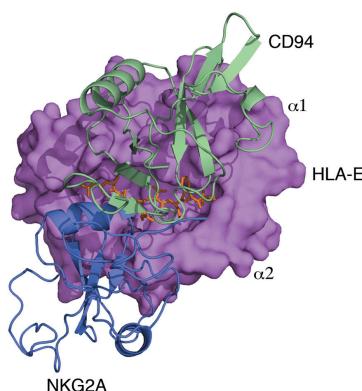
Flt 3 ligand (green) is expressed around thymic blood vessels (red) and attracts thymic progenitor cells from the bone marrow.
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- 685 Caspase-8 is activated by cathepsin D initiating neutrophil apoptosis during the resolution of inflammation
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- 699 Allergic pulmonary inflammation in mice is dependent on eosinophil-induced recruitment of effector T cells
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- 711 Age-associated decline in T cell repertoire diversity leads to holes in the repertoire and impaired immunity to influenza virus
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- 725 CD94-NKG2A recognition of human leukocyte antigen (HLA)-E bound to an HLA class I leader sequence
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Mice that lack IFN- γ receptors develop fibrotic lung damage (blue) when infected with a gammaherpesvirus.
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CORRECTIONS

- 737 *Jinx*, an MCMV susceptibility phenotype caused by disruption of *Unc13d*: a mouse model of type 3 familial hemophagocytic lymphohistiocytosis
Karine Crozat, Kasper Hoebe, Sophie Ugolini, Nancy A. Hong, Edith Janssen, Sophie Rutschmann, Suzanne Mudd, Sosathya Sovath, Eric Vivier, and Bruce Beutler
- 739 An antidote for *Staphylococcus aureus* pneumonia?
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The HLA-E ligand (purple) interacts more with the CD94 subunit (green) of the NK receptor than with the NKG2A subunit (blue).